

**Subject: glowbugs V1 #152**  
**glowbugs**

**Saturday, November 8 1997**

**Volume 01 : Number 152**

---

Date: Fri, 7 Nov 1997 13:51:23 -0500 (EST)

From: "User Rdkeys Robert D. Keys" <rdkeys@seedlab1.cropsci.ncsu.edu>

Subject: Re: Bruce Kelley, W2ICE Silent Key

In article <19971107130301.IAA07563@ladder02.news.aol.com> you wrote:

> I have just learned that Bruce Kelley former curator of the AWA museum has  
> passed away on Nov.6

> W2PM - Life Member ARRL Since 1976 - Member AWA  
> Top Dollar for Fine Telegraph and WIREless Apparatus  
>  
> VISIT MY WEB PAGE: <http://members.aol.com/pmalvasi/keypix/pete.html>

This is a sad one indeed. If you have never worked Bruce running his primary keyed rigs with their fine bell-tone ringing timbre, you have missed out on some of OT amateur radio's finest sounding sets. Bruce was a master of the primary keying methods. His armchair copy fist, and the tours of the AWA museum under his guidance, especially around that KW rotary gap set, will be missed by all.

RIP OM

ZUT

VA

DE NA4G/Bob UP

---

Date: Fri, 7 Nov 1997 13:51:23 -0500 (EST)

From: "User Rdkeys Robert D. Keys" <rdkeys@seedlab1.cropsci.ncsu.edu>

Subject: Re: Bruce Kelley, W2ICE Silent Key

In article <19971107130301.IAA07563@ladder02.news.aol.com> you wrote:

> I have just learned that Bruce Kelley former curator of the AWA museum has  
> passed away on Nov.6

> W2PM - Life Member ARRL Since 1976 - Member AWA  
> Top Dollar for Fine Telegraph and WIREless Apparatus  
>  
> VISIT MY WEB PAGE: <http://members.aol.com/pmalvasi/keypix/pete.html>

This is a sad one indeed. If you have never worked Bruce running his primary keyed rigs with their fine bell-tone ringing timbre, you have missed out on some of OT amateur radio's finest sounding sets. Bruce was a master of the primary keying methods. His armchair copy fist, and the tours of the AWA museum under his guidance, especially around that KW rotary gap set, will be missed by all.

RIP OM

ZUT

VA

DE NA4G/Bob UP

---

Date: Fri, 7 Nov 1997 15:10:41 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Regen Receiver in November? SURE

>  
> This message is in MIME format. Since your mail reader does not understand  
> this format, some or all of this message may not be legible.

Whatsay folks turn off their metamail extensions so that email is properly  
7 bit ascii.....(:+)}..... I am an OT unix fan with lowendian systems.  
Think 7 bit and enjoy life a little longer.....(:+)}.....

> if October was Regen Month, what happens if I want to build a regen in  
> November.....

Well, you get extra credit for hanging in there!

There is no set time limit. The point was to get folks building so  
they would have something up for the season, which is HERE/NOW.  
Ideally a month to put together the receiver and a month for the transmitter  
should not strain anyone, AND it would be ready for a December OT Fracas!

> I had a nice BA QSO with Art WA5OES on 3.579 the other week. Art got to  
> telling me about his regen receiver. By the time Art finished  
> describing the receiver, I couldn't wait to build one. I dug out my  
> C.F. Rocky Regen book and started reading it. I had only glanced  
> through it before. Read it this time. Hmm, so thats what a "throttle  
> capacitor" is.

Yup.... throttles are like hidden wisdom wats makes regenerators play better.  
Art and others have done well with their building projects, and that is GREAT!

I am glad you got motivated to put one together. They are actually QUITE GOOD  
on the 200 meters and down territory (160/80M), and compare favorably to any  
modern receiver, within the capabilities of regens, when built well.

> Art then mailed me the design information on his receiver. Thanks Art!  
> Its a 1934 Globe Trotter from an article by Dave Ingram Feb 1990 CQ. It  
> uses two '30 tubes with a capacitor throttle, 45 volts dc.

Sounds like a sure winner, to me.

> Art mentioned that there was a few problems with the original article  
> and some of the fellows on the list recommended some changes.  
>  
> Why is the antenna trimmer variable capacitor value recommended to  
> change from 100 pf to 3 pf? Does is 3 pf really enough to tune the  
> antenna. Maybe it was changed to reflect different number of turns on  
> the grid coil. Three pf seems close to zero pf.

Close to zero pf on the input coupling isolates the regen detector from  
the antenna farm, birdies, big neighbor kw's, and that sort of thing.

The capacitor is not really a tuning capacitor, but IS a coupling capacitor.  
For tuning, build a proper antenna tuner front end if you want. That works  
very well, too. The point is to UNCOUPLE the regenerative detector as much  
as possible, and let the audio system provide the additional gain by running  
wide open. One audio stage is usually sufficient, and two will blow yer  
tin cans off yer noggin.

A regen detector is very sensitive, so you really don't know the difference,  
and the stability and selectivity go up as you decrease the loading on the

primary/secondary coil systems. I use a pair of aluminum plates about 1/2 inch square or thereabouts, and that is P L E N T Y of input coupling to the high side of the secondary tank. Also, the grid coupling cap can be reduced to a little as 10pf or so and the grid leak increased to the terraohm range (stray leakage) and the effect becomes even greater. Practically, 10-20 meg ohms is a good value to shoot for with a 10-20pf grid coupling cap. Much higher than that and the time constant of the LC in the grid leak will swamp on keydown and recover SECONDS later (10 or more sometimes) which can be problematic doing QSK with a regen. If inductive coupling is used, no more than a two turn or so link is required. Anything more is way overcoupled.

> I would be interested to find out what other folks used for the coil  
> turns for the different bands.

Rulse de Thumbes for coils..... often can apply here, roughly speaking.....

Roughly 80 turns on a 2 inch soil for 160M,  
Roughly 40 turns on a 2 inch coil for 80M,  
Roughly 20 turns on a 2 inch coil for 40M,  
Roughly 10 turns on a 2 inch coil for 20M,  
etc, give or take a little, is good for play.

Those values and about 10-25pf of tuning capacitor will make for a fine regenerator.

Some folks use more capacity and less coil, but I tend to find that the lesser the capacitance, the greater the input impedance and signal strength.

I shoot for a single plate tuning capacitor of about 10-15pf max, and maybe a little padding cap to set the band edge (roughly a 15pf trimmer, max), and adjust the coils to suit based upon the above Rulse de Thumbes. Works for me.

This kind of thing is somewhat art and craft, based upon real science long ago, and lost in the bilges of time. You kinda get a feel for it after a while, and thumbing coils becomes second nature.

But, Welcome Aboard, and BUILD AWAY!!!!!!! That is the point of our group!

73/ZUT DE NA4G/Bob UP

What is this microschloth junk doing on unix!

> ----- =\_NextPart\_000\_01BCEB6B.2C6732C0  
> Content-Type: application/ms-tnef

^^

EGADS! There goes gateseo and company messing things up again.  
When will they learn what a real os is, and how to keep  
it contained.....

> Content-Transfer-Encoding: base64  
>

> eJ8+IjwQAQAQCAAEAAAAABAAEAQeQBGAIAAAA5AQAAAAAADoAAEIGAcAGAAAAElQTS5NaWNy  
> b3NvZnQgTWFPbc5Ob3RlADEIAQWAAwAOAAAAzQcLAACACAAxADcABQBBAQEggAMADgAAAM0HCwAH  
> AAoAMwA5AAUAYQEBCYABACEAAAA4NjBFRUY1QUIyNTZEMTExOEYwQjAwQTAYNDYyMEY5QQAzbWEE  
> gAEHAAAAFJlZ2VuIFJlY2VpdmVYIGluIE5vdmVtYmVYPwDaCQENgAQAAgAAAAIAAgABA5AGAEQJ  
> AAAAATAAAAwADgAgBgAAAAAwAAAAAAAEYAAAAAUoUAAHQQAAAEAAWACCAGAAAAAADAAAAA

> RgAAAABUhQAAAQAAAAUAAAA4LjAyAAAAAMABIAIIAYAAAAAMAAAAABGAAAAAGFAAAAAA  
> CwABgAggBgAAAAAwAAAAAAEYAAAAAA4UAAAAAALAAaACCAGAAAAADAAAAAAARgAAAAO  
> hQAAAAAAMAAoAIIAYAAAAAMAAAAABGAAAAABCFAAAAAAAwAHgAggBgAAAAAwAAAAA  
> AEYAAAAEYUAAAAAADAAiACCAGAAAAADAAAAAAARgAAAAAYhQAAAAAAB4ACYAIIAYAAAA  
> AAAAAAAABGAAAAADaFAAABAAAAQAAAAAAAEAAqACCAGAAAAADAAAAAAARgAAAAA3hQAA  
> AQAAAAEAAAAAAAHgALgAggBgAAAAAwAAAAAAEYAAAAAOIUAAEAAAAABAAAAAAAIBCRAB  
> AAAA+wMAAPcDAACDBQAATFpGdfwRbAcDAAoAcMnWzZyEYNXYyAPQB9yACpAPjAgBjgmKwHnldDAg  
> BxPlAoB9CoF1YwBQCwMLYCJuDhAwMzMLpiBICGkgRwkAd2JlZx8QAAqxCoQKgAaQIE9jiHRVygSQ  
> IHdhBCA4UmVnCfAF0AIhaCzPFSAQQAVAEebwCAnwBCctFIFJFSECMCAU0CATgOEDEGQgYSAJcBWS  
> C4Cx7BvdmUG0ASQLhlyHxPKF0AQQBgiAwBjZSBAQkEgUVNPFsBpBxYAELEFQfDBNU9FAwXwAiAg  
> My41Nz11F6BoGzBvHVEVEQngazQuIBWdZx2QF6J0ZerSbAuAZyAHgBgwBuC+dRZxBAAyVQlWgyBp  
> GRDTGWAEQeJ5HUNOB3Eca35mC4AEAB1gCABAAATyYj8fUhlS1MYWIBdABAB1bvkhkbcfQBUwG9AX  
> qAIg7mUeMR5AF0BkE5AcSb/xYm0hgEMuRh4wCABjzmsHgBV0BuBvaxgwJOD8IHMBkAAgItEJcBqw  
> H1KvG9AeMRqEAiBsIYBnEgh/GyAYIBYAA2ATkBVwJWEU8P8CEalWHjEVcBqxJWIgIiHi0R4xSG1t  
> FiBzHvEWUbcEIBZDGEAiK5ICQGwbMF5jFqAA0BvQBbAiFwBz/xm7HBIdUQOgAMADECLRH5HzHVIj  
> AWlNGKIsYQDAIeAvHMEcwsAKIOdUEEBuazsEIBwRISaBlSEYQDE5/DM0EzIU8DVQL5IVAQNSxyjB  
> GDAAIA3gL9FiIYBETmEZEBcWEiByYTFwRPrLyjaBORCGQ1EqMi0FQHUCc2BdxFAJzP5EKB0dRTw  
> LtEb0hhAMAEHK4MvshYgNDUgdgbw+S7BZGMw3weAAja0AStjXxZhHaIbMBuyGEBmB9FwvwNgAmAZ  
> IDvVHVMFEGLgP8HQDg3KNMDcB1xFJAdUkeQ/x8wE2AEIBzBHVIHQckQILL/A3A/YQEAQ6UQMRIG  
> B5AemfkTyldoIYAatch1hf3EJ8N9CwBegBRBGAQXAdgrABzD/QYE8WUngCkFFuxerRtQ3tFsSQBCg  
> cEQhF8AzTVE/+R5ARG8HkSaxTcIpgh8w/yGACfArwx7iJNAYtEjLhJH4TWf5NxELyRUyRtRME/0J  
> cGYv0BTAIvAGKEEQCXD5F4FudRkyRAMICAYxRQX9CcBpGCAFoAMQNTMJ0U1StxBwQaI4gG8QcBei  
> egSQ7xfATWAZvTsgdRgRUXJI8f8JcCkQTAQicSYBH/EWQx2U/QIQbDWhOsEYICxhHUNVondUdVxW  
> U0hiKNEwzDVlbXcRcBYQE8pTbaACQBxBOThXRKEWIAyAKiFQYb9ZEAXQC4ALkBPZY28KETECAGUg  
> AAsAAGABAAAAAHgBwAAEAAAAACAAAAUmnZw4gUmVjZWl2ZXIgaW4gTm92ZWl1ZXI/AAIbcQABAAAA  
> FgAAAAG864xsnlUt0DhV8RHrsJ8AgF8BGZEAAEAQBYVzppjOu8AQMA8T8JBAAAHgAXQAEAAAAI  
> AAAAUUMwMTg3MAADABpAAAAAB4AMEABAAAACAAAAFFDMDE4NzAAAwAZQAAAAADAP0/5AQAAAAA  
> JgAAAAAAAwA2AAAAAADAIaQ/////wIBRwABAAAAAMwAAAGM9VVM7YT1NQ0k7cd1HVU1EQU5UO2w9  
> U1RQTVNymDUtOTcMTA3MTQ0OTU1Wi0zOTA0AAACafk/AQAAAEkAAAAA3KdAyMBCEBq0uQgA  
> Ky/hggEAAAAAAL089R0RUL09VPU1JTk5FU09UQS9DTj1SRUNJUElFTlRTL0NOPVFDMDDE4NzAA  
> AAAAHgD4PwEAAAAWAAAAARnJlZWJlcmcsIFNjb3R0IChTVFApAAAAAHgA4QAEAAAAIAAAAUUMwMTg3  
> MAACAFs/AQAAAEkAAAAA3KdAyMBCEBq0uQgAKy/hggEAAAAAAL089R0RUL09VPU1JTk5F  
> U09UQS9DTj1SRUNJUElFTlRTL0NOPVFDMDDE4NzAAAAAHgD6PwEAAAAWAAAAARnJlZWJlcmcsIFNj  
> b3R0IChTVFApAAAAAHgA5QAEAAAAIAAAAUUMwMTg3MABAAACwODgdGozrvAFAAAGwEFKldZ3rvAEe  
> AD0AAQAAAAEAAAAAAAHgAdDgEAAACAAAAUmnZw4gUmVjZWl2ZXIgaW4gTm92ZWl1ZXI/AB4A  
> NRABAAAQgAAADwyMUI0NkNCRDayMkFEMTExoEYwNTAwODA1RjE1QTA2ODFFRDFGOEBTVFBNU1gw  
> NS5zdHAuZ3VpZGFudC5jb20+AAAACwApAAAAAALACMAAAAAAMABhB9jRjHAWAHEJ8DAADABAAQ  
> AAAAAAMAERAAAAAHgAIEAEAAABlAAAASElHTE9XQlVHU0lGT0NUT0JFUldBU1JFR0VOTU9OVEgs  
> V0hBVEhBUFBFTlNJRklXQU5UVE9CVU1MREFSRUDFTklOTk9WRU1CRVJJSEFEQU5JQ0VCQVFTTldJ  
> VEhBULRXQTVPRQAAAAACAX8AAQAAAEIAAAA8MjFCNDZDQkQwMjJBRDExMThtGMDUwMDgwNUYxNUeW  
> NjgxRUQxRjhaU1RQTVNymDUUc3RwLmdlaWRhbnQuY29tPgAAAAEb  
>  
> ----- =\_NextPart\_000\_01BCEB6B.2C6732C0--  
>

---

Date: Fri, 7 Nov 1997 14:55:35 -0800 (PST)  
From: Ken Gordon <keng@uidaho.edu>  
Subject: Re: Regen Receiver in November? SURE

What is the "C. F. Rocky Regen Book" and where can I find one?

Bob, are there regen rx articles/books in the GB archives?

Ken

---

Date: Fri, 7 Nov 1997 18:33:21 -0800 (PST)

**From: Ken Gordon <keng@uidaho.edu>**  
**Subject: Snazzy!!!!**

I've got two HG-10Bs, see, and the one I am using (traded an HR-10B for it) chirps and drifts pretty badly. Wasn't wired very well. It is stock. Got another one awhile back, with a built-in powersupply. VERY nicely built too. Doesn't work. Oscillator/buffer (6CH8) gets hotter than heck, the screen voltage on the pentode section is about 5 volts, and the VR tube goes out as soon as the osc. tube warms up. 6CH8 checked OK.

Took the 6CH8 home (from the shop) and plugged it into the working (chirping) HG-10B, and lo and behold, it doesn't chirp or drift any more! 'Smazing!

Anyone got a couple of new 6CH8s they would sell? If not, I will post an order to AES tomorrow.

Ken W7EKB

P.S. See someone on 3579 or 7050 tonight?

---

Date: Sat, 8 Nov 1997 03:24:57 +0000  
**From: Sandy W5TVW <ebjr@worldnet.att.net>**  
**Subject: ARRL "Lightning Calculators"**

Fellow Glowbuggers & Boatanchorites,

Has anyone approached the ARRL or another publisher about reproducing the ARRL "type A" Lightning Calculator?

This is the one that allows you to figure how many turns of what guage wire is needed at "X" turns-per-inch, to yield an inductor of "X" microhenries.

It also allows you to see what range a given inductor and variable capacitor will tune. The range is from 400 Khz to 150 Mhz, 1 uH to 1500 uH, and 2 to 150 turns-per-inch. Indications are given for various wire guages from 2 to 36 guage, enamelled, single cotton and silk covered and double cotton and silk covered wire.

Coil dimensions range from 1/2" to 5-1/2" in diameter and from 1/4" to 10" in length. If you are into winding coils, it takes a lot of calculation and guess work out of coil winding! Yes, I know there is probably a computer program that does this, but you can't slip the computer inside a book or take it to the "great white throne" to continue a design session!

I still have one in pretty good shape, but a brand-new one or two would be mighty nice! For those of you who haven't seen it, look in the ARRL "ads" section of most of the 1960's Handbooks and earlier editions. It is a circular slide rule type device that is very easy to use, and extremely useful!

Comments anyone?

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"  
417 Ridgewood Drive  
Metairie, LA., 70001

\*\*860 Hartley 'ECO' under construction\*\*\*\*  
\*\*\* Looking for a TRC-10 transceiver \*\*\*\*\*

\*\*\* looking for an RAL receiver \*\*\*\*\*

---

Date: Sat, 8 Nov 1997 09:33:31 -0400  
From: "Brian Carling" <bry@mnsinc.com>  
Subject: Re: ARRL "Lightning Calculators"

Sandy et al., I thnk this has already been done.

It's called HAMCALC and I think you can get the program free from the ARRL website. I may be mistaken...

Bry, AF4K

On 8 Nov 97 at 3:24, Sandy wrote:

```
> Fellow Glowbuggers & Boatanchorites,
>
>       Has anyone approached the ARRL or another publisher about
> reproducing the ARRL "type A" Lightning Calculator?
>       This is the one that allows you to figure how many turns of what
> guage wire
> is needed at "X" turns-per-inch, to yield an inductor of "X" microhenries.
>       It also allows you to see what range a given inductor and variable
> capacitor
> will tune. The range is from 400 Khz to 150 Mhz, 1 uH to 1500 uH, and 2 to 150
> turns-per-inch. Indications are given for various wire guages from 2 to 36
> guage,
> enamelled, single cotton and silk covered and double cotton and silk covered
> wire.
>       Coil dimensions range from 1/2" to 5-1/2" in diameter and from 1/4" to
> 10" in length. If you are into winding coils, it takes a lot of calculation and
> guess work out of coil winding! Yes, I know there is probably a computer
> program that does this, but you can't slip the computer inside a book or
> take it to the "great white throne" to continue a design session!
>       I still have one in pretty good shape, but a brand-new one or two
> would be
> mighty nice! For those of you who haven't seen it, look in the ARRL "ads"
> section of most of the 1960's Handbooks and earlier editions. It is a
> circular slide
> rule type device that is very easy to use, and extremely useful!
>       Comments anyone?
> 73,
> E. V. Sandy Blaize, W5TVW
> "Boat Anchors collected, restored, repaired, traded and used!"
> 417 Ridgewood Drive
> Metairie, LA., 70001
>
> **860 Hartley 'ECO' under construction****
> *** Looking for a TRC-10 transceiver *****
> *** looking for an RAL receiver *****
>
>
>
> *****
> *** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *
> ** E-mail to: bry@mnsinc.com *
> *** ICQ: 3910641 ***
> ** http://www.mnsinc.com/bry/ *
> *****
```

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,  
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III  
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

---

Date: Sat, 8 Nov 1997 09:33:26 -0400  
From: "Brian Carling" <bry@mnsinc.com>  
Subject: Re: Snazzy!!!!

Ken, no need to spend high prices for small numbers of tubes like that!

You can find many many sources of inexpensive 6CH8s and other tubes at:

<http://www.mnsinc.com/bry/mega/tubes.htm>

I hope this helps you or someone else on the GB list!

I also run an HG-10B but never heard of one using a built-in power supply!

Regards - Bry

On 7 Nov 97 at 18:33, Ken wrote:

> I've got two HG-10Bs, see, and the one I am using (traded an HR-10B for  
> it) chrips and drifts pretty badly. Wasn't wired very well. It is stock.  
> Got another one awhile back, with a built-in powersupply. VERY nicely  
> built too. Doesn't work. Oscillator/buffer (6CH8) gets hotter than heck,  
> the screen voltage on the pentode section is about 5 volts, and the VR  
> tube goes out as soon as the osc. tube warms up. 6CH8 checked OK.  
>  
> Took the 6CH8 home (from the shop) and plugged it into the working  
> (chripping) HG-10B, and lo and behold, it doesn't chrip or drift any more!  
> 'Smazing!  
>  
> Anyone got a couple of new 6CH8s they would sell? If not, I will post an  
> order to AES tomorrow.  
>  
> Ken W7EKB  
>  
> P.S. See someone on 3579 or 7050 tonight?  
>  
>  
>  
>  
>

\*\*\*\*\*  
\*\*\* 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA \*  
\*\* E-mail to: bry@mnsinc.com \*  
\*\*\* ICQ: 3910641 \*\*\*  
\*\* <http://www.mnsinc.com/bry/> \*  
\*\*\*\*\*

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,  
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III  
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

---

Date: Sat, 8 Nov 1997 11:52:50 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Regen Receiver in November? SURE

>  
> What is the "C. F. Rocky Regen Book" and where can I find one?

I have no idea of what that book is, never having seen one, but I did hear mention of the title on the lists a time or two.

Someone should give us a shortie book report on it????

> Bob, are there regen rx articles/books in the GB archives?

The only thing up there now is Porter Quinby's 1928 tube base receiver article from QST. I am working on a couple of others, but time....time.....time.....

Bob/NA4G

---

Date: Sat, 8 Nov 1997 12:19:11 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: ARRL "Lightning Calculators" et al

> Sandy et al., I think this has already been done.  
>

> It's called HAMCALC and I think you can get the program free from the  
> ARRL website. I may be mistaken...

Hamcalc is good, but us OT parties don't have eniacs around, very often on the bench. Yeah, I know, my unix workstation is 5 feet into the next room, but geeesh.....(:+)}..... think luddite, or such, glowing '01A's, spark era etc.

In actual practice, the precision required for GB projects is EXTREMELY LOOSE in tolerances. That is why generic rules de thumbe can apply. Most other circuit constants will have unpredictable effects on things, so ballpark tolerance is usually adequate, with final tweaking probable.

> > Has anyone approached the ARRL or another publisher about  
> > reproducing the ARRL "type A" Lightning Calculator?

There are several published nomograms dating from the 1920's that cover this. I have one from an early ARRL Handbook (3rd edition) that I will scan in, if I can get time. It was also published in several books of the era, and in QST. They all will get you into the ballpark.

It would be neat to do some kind of a rehash in postscript or eps to a typesetter that could run off that Lightning A thing on card stock, and maybe make a usable one, again. Someone contact the ARRL, perhaps? Does it have a copyright on it? Does the ARRL still have any around?

> > If you are into winding coils, it takes a lot of calculation and  
> > guess work out of coil winding!

True, although if one tends to work 160/80/40M mostly, the generic rules de thumbe still apply in most cases. The actual coil that one may wind will vary considerably from the theoretical, based upon the coil form



material, the wire, strays, etc, and hand trimming to ``right-on'' is usually always required, anyway, on most of my receivers, to suite my tastes. On Hartleys, the generic rule of 12-15 turns for 80M and double that for 200 meters and down, works over a very broad range of coil sizes and wire sizes --- all to fit is padded down to suit in this case.

But, a real slipstick calculator of modern technology (not a gatesbound thingie) would be fun to have.

> > \*\*860 Hartley 'ECO' under construction\*\*\*\*

I am awaiting this critter with baited breath!

Where ARE all the self-controlled oscillators folks are building????  
Is YOUR OT station (regenerator and Hartley project stuff) ready for the December OT Fracas?

Bob/NA4G

---

Date: Sat, 8 Nov 1997 10:31:58 -0800 (PST)  
**From:** "Tom R. Rice" <tomrice@netcom.com>  
**Subject:** Re: Regen Receivers of the Rocky kind.....

> > What is the "C. F. Rocky Regen Book" and where can I find one?  
>  
> I have no idea of what that book is, never having seen one, but I did  
> hear mention of the title on the lists a time or two.

The book is "Secrets of Homebuilt Regenerative Receivers" by C. F. "Rock" Rockey and it's available from our friends at Lindsay.

The book has some very good dope on regurgitator theory and practice and has several "buildable" circuits, including the four-triode set with grounded-grid input amplifier, which I'll have finished one of these days. Recommended.

In case of need:

Lindsay Publications, Inc.  
PO Box 538  
Bradley, IL 60915

phone: 815-935-5353

and ask to be put on their old-radio-books catalog mailing list.

Have fun!

73 de WB6BYH

--  
"Start off every day with a smile and get it over with." --W.C.Fields  
Tom R. Rice  
tomrice@netcom.com

---

Date: Sat, 8 Nov 1997 15:01:25 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
Subject: Re: ARRL "Lightning Calculators" et al

Hi, BA Bob & the gang!

The later ARRL L/C/F calc, which does everything the circular Lightning Calc did in a more conventional format, is copyright 1969 by Perrygraf Div. Nashua Corp., L.A., Cal. 90064. It's 10"x4" and may still be available from ARRL, though I don't find it in a recent ARRL Publications flyer.

The original circular rule Lightning Calculator was actually copyright by W. P. Koechel and distributed by Lightning Calculator Co. of Owensboro Ky. I have a 1932 Koechel "Lightning Radio Calculator, Short Wave Type," model SWP-1. It is just like the old ARRL one, except for being printed in one color and having no mention of the League; I suspect ARRL had special editions printed by (or under license from) Koechel/Lightning Calc. Co. It's actually in better shape than my newer ARRL one. It is a little harder to learn to use. Gives the exact same results and adds the luxury of scales for s.c.c and d.c.c. wire to the enamelled-wire scale, plus markings for the amateur CW and 'phone bands (including 5m and the old 400-401 mc/s bands). No copyright, though I would be loathe to take it apart for reproduction--two moving cards and a celluloid cursor are held together by a brass eyelet.

They are the handiest way to figure out coils & tuned-circuit constants, bar none. The old standard coil nomograph (an abac to the rest of the English-speaking world) found in "Radio" HBs and some ARRL pubs is a bit of a beast, requiring extra calculation of the length/diameter ratio and all but impossible to use without making marks on the page. I would certainly not haul a computer down to my basement shop and expose it to the usual workshop hazards! (Leave us to say that "shop" turns to "slop" rather quickly here at Dots-n-dashes House!)

73,  
--Bobbi

---

End of glowbugs V1 #152  
\*\*\*\*\*